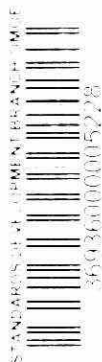


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ACIDIC PRECIPITATION IN ONTARIO STUDY

ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION - DAILY PRECIPITATION AND AIR MONITORING NETWORK, 1982

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May 1984

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Ontario

Ministry
of the
Environment

The Honourable
Andrew S. Brandt
Minister

Brock A. Smith
Deputy Minister

ACIDIC PRECIPITATION IN ONTARIO STUDY

**ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION
- DAILY PRECIPITATION AND AIR MONITORING NETWORK, 1982**

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May 1984

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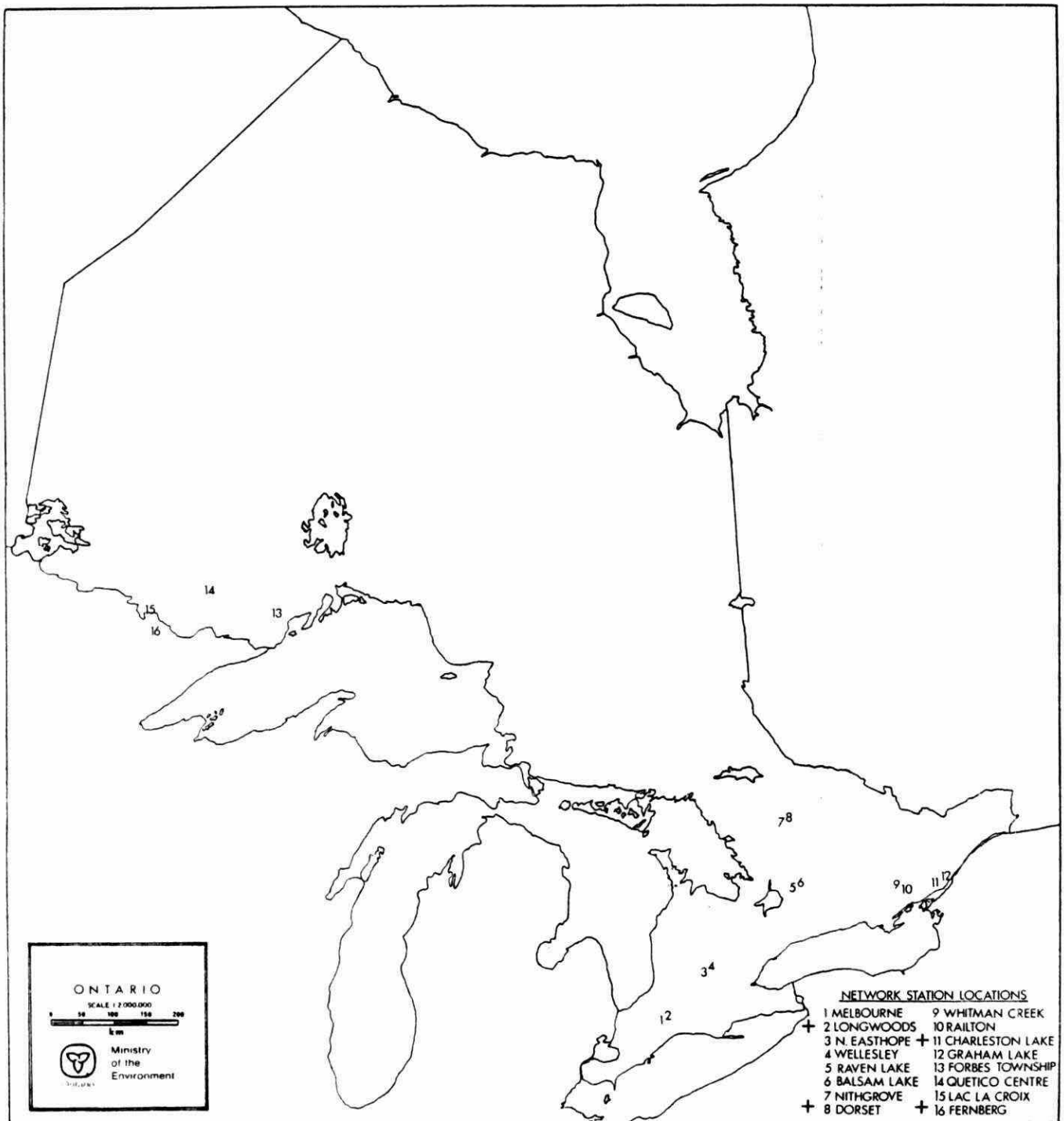
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PART I
INTRODUCTION

PART II

STATION DESCRIPTION AND LOCATION MAP

STATION SITE LOCATION MAP
APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK *



* ALL SITES ARE PRECIPITATION MONITORING SITES. THOSE LABELLED WITH (+)
ARE ALSO EQUIPPED WITH AIR MONITORING INSTRUMENTATION

APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK SITE LOCATIONS *

AREA	MOE REGION	STATION NAME	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM COORDINATES (Northing) (Easting)	
London	Southwestern	Longwoods Conservations Area*	239	42°53'02"	81°28'50"	4747600	460700
		Melbourne	213	42°47'15"	81°33'23"	4737100	454500
		North Easthope	375	43°24'21"	80°53'35"	4805650	508650
		Wellesley	344	43°28'13"	80°45'35"	4812700	519600
Dorset	Central	Dorset Laboratory*	320	45°13'23"	78°55'49"	5009600	662450
		Nithgrove	325	45°12'01"	79°04'14"	5006800	651600
		Balsam Lake Provincial Park	259	44°37'35"	78°51'22"	4943500	670170
		Raven Lake	274	44°36'40"	78°54'43"	4941550	665700
Kingston	Southeastern	Charleston Lake Provincial Park*	92	44°29'54"	76°02'30"	4927500	417150
		Graham Lake	130	44°35'22"	75°51'44"	4937450	431550
		Railton	156	44°22'34"	76°35'33"	4914700	373200
		Whitman Creek	137	44°29'07"	76°49'19"	4927200	355100
Thunder Bay	Northwestern	Fernberg*	506	47°56'51"	91°29'26"	5311000	612000
		Lac La Croix	368	48°21'14"	92°12'32"	5355900	558400
		Forbes Township	324	48°34'58"	89°38'56"	5384150	304800
		Quetico Centre	420	48°24'44"	91°12'08"	5399750	632100

* All sites monitor precipitation concentrations. Sites labelled (*) also monitor air concentrations.

PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION

#06

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	140.0	87.0	74.00	115.00	110.0000	116.00	115.000
MAXIMUM :	31.1	157.0	4.99	5.71	0.4300	15.00	2.730
MINIMUM :	0.2	4.1	3.44	3.39	0.0214	0.05	0.030
RANGE :	30.9	152.9	1.55	2.32	0.4086	14.95	2.700
ARITH. MEAN :	6.1	35.3	4.23	4.29	0.0999	3.09	0.598
ARITH. STD. DEV :	6.2	29.8	0.34	0.41	0.0753	2.78	0.498
GEOM. MEAN :	3.5	26.5	4.22	4.27	0.0808	1.98	0.426
GEOM. STD. DEV. :	3.2	2.2	1.08	1.10	1.8978	2.83	2.461
1ST QUARTILE :	1.5	15.8	3.95	4.04	0.0516	0.88	0.265
2ND QUARTILE :	3.5	27.0	4.21	4.22	0.0773	2.38	0.420
3RD QUARTILE :	8.2	45.3	4.46	4.45	0.1247	4.15	0.735
VOL. WGT. MEAN :	*****	30.7	*****	*****	0.0900	2.64	0.439

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	96.000	111.000	95.000	104.000	101.000	98.000	115.0000
MAXIMUM :	0.860	0.900	0.210	0.180	0.380	1.350	0.4074
MINIMUM :	0.010	0.000	0.000	0.000	0.000	0.004	0.0019
RANGE :	0.850	0.900	0.210	0.180	0.380	1.346	0.4054
ARITH. MEAN :	0.230	0.184	0.032	0.028	0.065	0.296	0.0740
ARITH. STD. DEV :	0.219	0.155	0.038	0.027	0.074	0.283	0.0652
GEOM. MEAN :	0.142	0.144	0.025	0.025	0.038	0.179	0.0516
GEOM. STD. DEV. :	2.882	2.540	2.825	2.635	3.285	3.094	2.5574
1ST QUARTILE :	0.060	0.070	0.010	0.010	0.015	0.090	0.0347
2ND QUARTILE :	0.160	0.140	0.020	0.020	0.035	0.220	0.0582
3RD QUARTILE :	0.325	0.280	0.037	0.040	0.085	0.420	0.0902
VOL. WGT. MEAN :	0.177	0.131	0.024	0.021	0.042	0.250	0.0648

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2,82 TO DEC 29,82

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	126.0	77.0	43.00	112.00	105.0000	113.00	110.000
MAXIMUM :	60.6	129.0	4.99	5.66	0.4432	15.30	3.920
MINIMUM :	0.1	4.2	3.30	3.15	0.0214	0.02	0.000
RANGE :	60.5	124.8	1.69	2.51	0.4218	15.27	3.920
ARITH. MEAN :	8.0	38.5	4.25	4.15	0.1100	3.11	0.626
ARITH. STD. DEV :	10.0	28.0	0.32	0.41	0.0731	2.66	0.556
GEOM. MEAN :	4.3	29.2	4.24	4.14	0.0910	2.17	0.447
GEOM. STD. DEV. :	3.2	2.2	1.08	1.10	1.8753	2.59	2.570
1ST QUARTILE :	2.0	17.2	4.06	3.95	0.0612	1.25	0.305
2ND QUARTILE :	4.6	33.9	4.24	4.10	0.0995	2.27	0.470
3RD QUARTILE :	8.6	46.5	4.44	4.35	0.1253	3.93	0.765
VOL. WGT. MEAN :	*****	32.2	*****	*****	0.0958	2.80	0.472

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

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ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2,82 TO DEC 29,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	94.000	108.000	94.000	95.000	94.000	93.000	112.0000
MAXIMUM :	1.030	0.930	0.195	0.125	0.445	2.000	0.7079
MINIMUM :	0.005	0.000	0.000	0.000	0.000	0.006	0.0022
RANGE :	1.025	0.930	0.195	0.125	0.445	1.994	0.7058
ARITH. MEAN :	0.189	0.199	0.031	0.028	0.066	0.346	0.1037
ARITH. STD. DEV :	0.211	0.180	0.034	0.025	0.078	0.314	0.1050
GEOM. MEAN :	0.106	0.146	0.025	0.028	0.036	0.229	0.0700
GEOM. STD. DEV. :	3.223	2.577	2.653	2.563	3.491	2.861	2.5930
1ST QUARTILE :	0.050	0.075	0.010	0.010	0.020	0.147	0.0447
2ND QUARTILE :	0.105	0.140	0.020	0.020	0.037	0.270	0.0804
3RD QUARTILE :	0.245	0.285	0.037	0.040	0.087	0.431	0.1122
VOL. WGT. MEAN :	0.149	0.131	0.023	0.023	0.046	0.306	0.0769

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION

#08

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	193.0	102.0	92.00	160.00	145.0000	153.00	154.000
MAXIMUM :	34.8	98.0	5.15	5.37	0.5840	24.75	2.670
MINIMUM :	0.0	2.7	3.40	3.35	0.0196	0.02	0.000
RANGE :	34.8	95.3	1.75	2.02	0.5644	24.72	2.670
ARITH. MEAN :	6.0	29.8	4.26	4.29	0.0997	2.81	0.583
ARITH. STD. DEV :	6.9	20.0	0.32	0.38	0.0861	3.11	0.496
GEOM. MEAN :	2.6	23.5	4.24	4.27	0.0799	1.69	0.430
GEOM. STD. DEV. :	4.5	2.1	1.08	1.09	1.8667	3.04	2.398
1ST QUARTILE :	1.0	14.5	4.05	4.05	0.0492	0.82	0.220
2ND QUARTILE :	3.2	24.8	4.22	4.25	0.0767	1.93	0.420
3RD QUARTILE :	8.8	39.2	4.45	4.52	0.1116	3.63	0.775
VOL. WGT. MEAN :	*****	26.0	*****	*****	0.0848	2.32	0.410

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***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION

#08

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	117.000	146.000	117.000	120.000	119.000	114.000	160.0000
MAXIMUM :	0.990	1.060	0.235	0.265	0.250	1.200	0.4467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.004	0.0043
RANGE :	0.990	1.060	0.235	0.265	0.250	1.196	0.4424
ARITH. MEAN :	0.161	0.172	0.026	0.043	0.058	0.289	0.0742
ARITH. STD. DEV :	0.194	0.158	0.035	0.049	0.057	0.274	0.0728
GEOM. MEAN :	0.107	0.125	0.029	0.031	0.041	0.156	0.0518
GEOM. STD. DEV. :	2.961	2.789	2.938	3.116	3.205	3.734	2.3967
1ST QUARTILE :	0.040	0.060	0.005	0.010	0.015	0.076	0.0302
2ND QUARTILE :	0.100	0.130	0.015	0.027	0.040	0.197	0.0562
3RD QUARTILE :	0.190	0.245	0.025	0.052	0.085	0.450	0.0891
VOL. WGT. MEAN :	0.118	0.116	0.019	0.033	0.045	0.253	0.0588

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION

#16

PERIOD OF REPORT : JAN 2,82 TO DEC 28,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	90.0	62.0	0.00	85.00	83.0000	84.00	84.000
MAXIMUM :	35.8	44.1	*****	6.54	0.2408	6.80	1.240
MINIMUM :	0.1	1.8	*****	3.68	0.0178	0.00	0.000
RANGE :	35.7	42.3	*****	2.86	0.2230	6.80	1.240
ARITH. MEAN :	9.2	10.5	*****	4.98	0.0458	1.23	0.212
ARITH. STD. DEV :	7.7	7.1	*****	0.49	0.0338	1.36	0.212
GEOM. MEAN :	5.8	8.9	*****	4.95	0.0398	0.81	0.169
GEOM. STD. DEV. :	3.2	1.8	*****	1.10	1.6038	2.56	2.249
1ST QUARTILE :	2.9	6.0	*****	4.69	0.0289	0.42	0.080
2ND QUARTILE :	7.1	9.1	*****	4.92	0.0377	0.77	0.160
3RD QUARTILE :	12.8	12.1	*****	5.16	0.0505	1.42	0.260
VOL. WGT. MEAN :	*****	9.5	*****	*****	0.0423	0.97	0.169

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION

#16

PERIOD OF REPORT : JAN 2,82 TO DEC 28,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	74.000	83.000	75.000	76.000	73.000	77.000	85.0000
MAXIMUM :	0.730	0.290	0.150	0.715	0.200	1.290	0.2089
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0003
RANGE :	0.730	0.290	0.150	0.715	0.200	1.289	0.2086
ARITH. MEAN :	0.157	0.073	0.025	0.048	0.037	0.268	0.0195
ARITH. STD. DEV :	0.176	0.061	0.030	0.092	0.040	0.283	0.0315
GEOM. MEAN :	0.087	0.065	0.047	0.026	0.028	0.128	0.0106
GEOM. STD. DEV. :	3.335	2.293	3.198	3.199	3.083	4.830	3.0858
1ST QUARTILE :	0.030	0.040	0.004	0.010	0.010	0.064	0.0066
2ND QUARTILE :	0.080	0.050	0.015	0.027	0.022	0.180	0.0117
3RD QUARTILE :	0.250	0.090	0.040	0.055	0.047	0.337	0.0200
VOL. WGT. MEAN :	0.122	0.054	0.018	0.033	0.030	0.221	0.0160

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ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION

#13

PERIOD OF REPORT : JAN 2,82 TO DEC 19,82

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	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	131.0	74.0	0.00	104.00	99.0000	95.00	97.000
MAXIMUM :	83.0	40.0	*****	6.23	0.3760	6.80	1.120
MINIMUM :	0.2	1.8	*****	3.58	0.0170	0.00	0.000
RANGE :	82.8	38.2	*****	2.65	0.3590	6.80	1.120
ARITH. MEAN :	6.4	12.3	*****	4.83	0.0555	1.33	0.254
ARITH. STD. DEV :	10.1	8.0	*****	0.53	0.0474	1.29	0.240
GEOM. MEAN :	2.6	10.0	*****	4.80	0.0466	0.87	0.192
GEOM. STD. DEV. :	4.4	2.0	*****	1.12	1.7055	2.72	2.463
1ST QUARTILE :	0.7	6.0	*****	4.49	0.0327	0.40	0.075
2ND QUARTILE :	2.9	10.0	*****	4.76	0.0443	0.85	0.180
3RD QUARTILE :	8.6	15.8	*****	5.09	0.0611	1.82	0.325
VOL. WGT. MEAN :	*****	11.6	*****	*****	0.0464	1.29	0.214

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2,82 TO DEC 19,82

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	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB MG/L
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
# OF SAMPLES :	81.000	97.000	83.000	87.000	82.000	85.000	104.0000
MAXIMUM :	0.630	0.480	0.225	0.330	0.235	2.050	0.2630
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0006
RANGE :	0.630	0.480	0.225	0.330	0.235	2.050	0.2624
ARITH. MEAN :	0.152	0.083	0.024	0.040	0.042	0.300	0.0285
ARITH. STD. DEV :	0.158	0.085	0.038	0.060	0.050	0.349	0.0414
GEOM. MEAN :	0.101	0.080	0.040	0.025	0.027	0.154	0.0147
GEOM. STD. DEV. :	3.005	2.368	3.723	3.481	3.270	4.633	3.4197
1ST QUARTILE :	0.030	0.030	0.002	0.005	0.010	0.062	0.0081
2ND QUARTILE :	0.100	0.060	0.010	0.020	0.025	0.178	0.0174
3RD QUARTILE :	0.195	0.105	0.035	0.050	0.052	0.430	0.0324
VOL. WGT. MEAN :	0.137	0.055	0.025	0.027	0.032	0.304	0.0194

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3,82 TO DEC 29,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	117.0	72.0	41.00	85.00	89.0000	96.00	96.000
MAXIMUM :	52.0	109.0	5.03	5.99	0.3580	17.75	2.550
MINIMUM :	0.2	4.9	3.37	3.44	0.0000	0.20	0.030
RANGE :	51.8	104.1	1.66	2.55	0.3580	17.55	2.520
ARITH. MEAN :	7.9	32.3	4.30	4.30	0.0891	3.52	0.672
ARITH. STD. DEV :	7.8	21.7	0.38	0.45	0.0553	3.00	0.485
GEOM. MEAN :	4.9	25.7	4.28	4.28	0.0792	2.57	0.492
GEOM. STD. DEV. :	2.9	2.0	1.09	1.11	1.7562	2.29	2.449
1ST QUARTILE :	2.3	15.9	4.10	4.04	0.0492	1.40	0.305
2ND QUARTILE :	5.3	29.0	4.29	4.22	0.0756	2.63	0.535
3RD QUARTILE :	10.2	38.7	4.42	4.54	0.1095	4.50	0.965
VOL. WGT. MEAN :	*****	27.2	*****	*****	0.0842	2.87	0.491

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3,82 TO DEC 29,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	80.000	90.000	77.000	82.000	79.000	80.000	85.0000
MAXIMUM :	1.790	0.940	0.285	0.600	0.705	1.610	0.3631
MINIMUM :	0.020	0.005	0.000	0.000	0.000	0.036	0.0010
RANGE :	1.770	0.935	0.285	0.600	0.705	1.574	0.3621
ARITH. MEAN :	0.322	0.295	0.054	0.090	0.166	0.470	0.0746
ARITH. STD. DEV :	0.336	0.210	0.055	0.105	0.151	0.374	0.0668
GEOM. MEAN :	0.200	0.218	0.042	0.058	0.115	0.326	0.0497
GEOM. STD. DEV. :	2.829	2.410	2.642	2.694	2.620	2.598	2.8233
1ST QUARTILE :	0.105	0.130	0.020	0.025	0.052	0.165	0.0282
2ND QUARTILE :	0.230	0.250	0.035	0.055	0.130	0.400	0.0596
3RD QUARTILE :	0.410	0.390	0.072	0.100	0.217	0.605	0.0891
VOL. WGT. MEAN :	0.249	0.217	0.042	0.072	0.115	0.369	0.0672

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25,82 TO DEC 23,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	39.0	29.0	0.00	31.00	33.0000	34.00	34.000
MAXIMUM :	40.4	32.9	*****	6.14	0.2086	4.95	1.130
MINIMUM :	0.2	2.0	*****	3.81	0.0182	0.10	0.000
RANGE :	40.2	30.9	*****	2.33	0.1904	4.85	1.130
ARITH. MEAN :	9.6	11.4	*****	5.03	0.0470	1.39	0.257
ARITH. STD. DEV :	9.6	8.1	*****	0.55	0.0353	1.20	0.239
GEOM. MEAN :	5.1	9.1	*****	5.00	0.0400	0.94	0.215
GEOM. STD. DEV. :	3.8	2.0	*****	1.12	1.6924	2.67	2.450
1ST QUARTILE :	2.2	5.8	*****	4.65	0.0253	0.45	0.115
2ND QUARTILE :	6.5	9.2	*****	4.93	0.0362	0.85	0.225
3RD QUARTILE :	14.0	13.6	*****	5.35	0.0517	1.82	0.260
VOL. WGT. MEAN :	*****	11.0	*****	*****	0.0409	1.28	0.227

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25,82 TO DEC 23,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	28.000	33.000	28.000	29.000	29.000	30.000	31.0000
MAXIMUM :	0.520	0.780	0.100	0.200	0.160	1.640	0.1549
MINIMUM :	0.000	0.000	0.000	0.002	0.002	0.001	0.0007
RANGE :	0.520	0.780	0.100	0.197	0.158	1.639	0.1542
ARITH. MEAN :	0.180	0.106	0.031	0.056	0.042	0.379	0.0192
ARITH. STD. DEV :	0.146	0.136	0.025	0.054	0.040	0.365	0.0289
GEOM. MEAN :	0.136	0.090	0.047	0.032	0.027	0.189	0.0093
GEOM. STD. DEV. :	2.801	2.308	2.591	3.450	2.953	5.202	3.5699
1ST QUARTILE :	0.090	0.050	0.015	0.020	0.012	0.147	0.0041
2ND QUARTILE :	0.135	0.065	0.027	0.035	0.032	0.264	0.0095
3RD QUARTILE :	0.240	0.125	0.050	0.065	0.055	0.500	0.0209
VOL. WGT. MEAN :	0.157	0.064	0.026	0.042	0.034	0.324	0.0148

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION

#02

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	139.0	83.0	71.00	99.00	97.0000	109.00	107.000
MAXIMUM :	40.0	170.0	6.43	6.61	0.5424	17.40	3.700
MINIMUM :	0.1	2.6	3.32	3.36	0.0232	0.20	0.005
RANGE :	39.9	167.3	3.11	3.25	0.5192	17.20	3.695
ARITH. MEAN :	7.3	33.7	4.28	4.28	0.1092	3.79	0.718
ARITH. STD. DEV :	8.1	23.9	0.47	0.54	0.0895	3.08	0.643
GEOM. MEAN :	3.6	27.5	4.26	4.25	0.0881	2.81	0.500
GEOM. STD. DEV. :	3.9	1.9	1.11	1.12	1.8693	2.28	2.675
1ST QUARTILE :	1.5	18.6	4.01	3.97	0.0580	1.70	0.300
2ND QUARTILE :	4.3	29.1	4.20	4.23	0.0901	2.90	0.455
3RD QUARTILE :	10.9	39.6	4.43	4.44	0.1201	4.75	0.970
VOL. WGT. MEAN :	*****	27.5	*****	*****	0.0845	2.87	0.466

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION

#02

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	86.000	104.000	92.000	98.000	94.000	96.000	99.0000
MAXIMUM :	1.770	1.020	0.425	0.460	0.610	2.800	0.4365
MINIMUM :	0.020	0.000	0.002	0.000	0.000	0.038	0.0002
RANGE :	1.750	1.020	0.423	0.460	0.610	2.762	0.4363
ARITH. MEAN :	0.421	0.289	0.089	0.071	0.106	0.435	0.0843
ARITH. STD. DEV :	0.359	0.232	0.086	0.076	0.108	0.412	0.0789
GEOM. MEAN :	0.275	0.212	0.052	0.048	0.073	0.308	0.0527
GEOM. STD. DEV. :	2.782	2.472	3.163	2.663	2.773	2.306	3.4395
1ST QUARTILE :	0.120	0.130	0.025	0.027	0.035	0.163	0.0351
2ND QUARTILE :	0.345	0.225	0.062	0.050	0.070	0.305	0.0562
3RD QUARTILE :	0.580	0.385	0.127	0.082	0.140	0.570	0.1072
VOL. WGT. MEAN :	0.309	0.182	0.062	0.050	0.070	0.324	0.0592

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION

#01

PERIOD OF REPORT : JAN 13,82 TO DEC 28,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	98.0	71.0	58.00	91.00	88.0000	85.00	86.000
MAXIMUM :	92.8	104.0	5.93	6.74	0.5600	25.50	2.180
MINIMUM :	0.4	3.0	3.74	3.28	0.0170	0.25	0.020
RANGE :	92.4	101.0	2.19	3.46	0.5430	25.25	2.160
ARITH. MEAN :	9.9	36.8	4.25	4.22	0.1113	4.12	0.670
ARITH. STD. DEV :	11.2	20.7	0.34	0.48	0.0807	3.35	0.483
GEOM. MEAN :	6.2	31.6	4.24	4.20	0.0932	3.26	0.513
GEOM. STD. DEV. :	2.8	1.8	1.08	1.11	1.7906	2.02	2.197
1ST QUARTILE :	3.1	20.5	4.04	3.96	0.0638	2.13	0.300
2ND QUARTILE :	6.3	30.8	4.21	4.16	0.0908	3.13	0.500
3RD QUARTILE :	14.3	46.6	4.35	4.39	0.1273	4.97	0.925
VOL. WGT. MEAN :	*****	31.7	*****	*****	0.0912	3.22	0.463

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION #01

PERIOD OF REPORT : JAN 13,82 TO DEC 28,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	72.000	86.000	75.000	76.000	72.000	75.000	91.0000
MAXIMUM :	1.500	1.170	0.340	0.470	0.435	2.950	0.5248
MINIMUM :	0.020	0.000	0.000	0.000	0.000	0.088	0.0002
RANGE :	1.480	1.170	0.340	0.470	0.435	2.862	0.5246
ARITH. MEAN :	0.364	0.283	0.070	0.070	0.105	0.511	0.0905
ARITH. STD. DEV :	0.346	0.244	0.076	0.079	0.113	0.479	0.0852
GEOM. MEAN :	0.225	0.203	0.047	0.045	0.065	0.372	0.0603
GEOM. STD. DEV. :	2.922	2.474	2.922	2.807	3.297	2.169	3.0314
1ST QUARTILE :	0.100	0.100	0.020	0.027	0.025	0.199	0.0389
2ND QUARTILE :	0.295	0.225	0.042	0.045	0.060	0.340	0.0668
3RD QUARTILE :	0.450	0.375	0.100	0.075	0.150	0.620	0.1060
VOL. WGT. MEAN :	0.249	0.189	0.044	0.050	0.071	0.349	0.0708

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION

#07

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	135.0	87.0	73.00	108.00	103.0000	115.00	115.000
MAXIMUM :	41.0	126.0	5.26	5.35	0.3480	16.00	3.010
MINIMUM :	0.3	2.3	3.54	3.47	0.0252	0.02	0.000
RANGE :	40.7	123.7	1.72	1.88	0.3228	15.98	3.010
ARITH. MEAN :	8.4	28.5	4.30	4.32	0.0898	2.70	0.547
ARITH. STD. DEV :	7.8	20.1	0.33	0.39	0.0580	2.49	0.473
GEOM. MEAN :	5.2	22.2	4.29	4.31	0.0757	1.74	0.382
GEOM. STD. DEV. :	2.9	2.1	1.08	1.09	1.7925	2.89	2.664
1ST QUARTILE :	2.4	13.0	4.06	4.09	0.0476	0.88	0.220
2ND QUARTILE :	5.9	25.9	4.22	4.25	0.0802	2.22	0.400
3RD QUARTILE :	12.3	38.4	4.52	4.53	0.1129	3.63	0.710
VOL. WGT. MEAN :	*****	25.3	*****	*****	0.0802	2.29	0.387

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

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	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	94.000	109.000	91.000	83.000	88.000	93.000	108.0000
MAXIMUM :	1.120	0.820	0.195	0.750	0.375	1.260	0.3388
MINIMUM :	0.000	0.020	0.000	0.002	0.000	0.001	0.0045
RANGE :	1.120	0.800	0.195	0.748	0.375	1.259	0.3344
ARITH. MEAN :	0.213	0.214	0.030	0.087	0.078	0.320	0.0668
ARITH. STD. DEV :	0.211	0.171	0.036	0.109	0.077	0.275	0.0585
GEOM. MEAN :	0.144	0.153	0.039	0.053	0.053	0.191	0.0474
GEOM. STD. DEV. :	2.545	2.388	2.844	2.792	3.034	3.488	2.4459
1ST QUARTILE :	0.070	0.080	0.008	0.030	0.025	0.099	0.0295
2ND QUARTILE :	0.125	0.160	0.020	0.050	0.050	0.223	0.0562
3RD QUARTILE :	0.290	0.285	0.040	0.090	0.110	0.460	0.0813
VOL. WGT. MEAN :	0.142	0.142	0.020	0.058	0.054	0.274	0.0541

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	158.0	94.0	61.00	103.00	106.0000	134.00	133.000
MAXIMUM :	48.5	122.0	5.72	6.35	0.6696	13.65	3.090
MINIMUM :	0.0	4.0	3.00	3.52	0.0210	0.20	0.010
RANGE :	48.5	118.0	2.72	2.83	0.6486	13.45	3.080
ARITH. MEAN :	6.9	32.0	4.31	4.35	0.0967	3.39	0.675
ARITH. STD. DEV :	7.4	20.2	0.44	0.53	0.0831	2.69	0.542
GEOM. MEAN :	3.6	26.4	4.29	4.32	0.0765	2.46	0.489
GEOM. STD. DEV. :	3.8	1.9	1.11	1.12	1.9435	2.34	2.409
1ST QUARTILE :	1.4	17.7	4.08	4.03	0.0527	1.35	0.300
2ND QUARTILE :	4.2	28.1	4.23	4.25	0.0757	2.50	0.505
3RD QUARTILE :	9.4	39.0	4.48	4.47	0.1090	4.67	0.850
VOL. WGT. MEAN :	*****	27.7	*****	*****	0.0819	2.91	0.474

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	93.000	127.000	96.000	107.000	108.000	107.000	103.0000
MAXIMUM :	1.890	1.200	0.585	1.350	0.570	2.020	0.3020
MINIMUM :	0.000	0.000	0.000	0.000	0.002	0.012	0.0004
RANGE :	1.890	1.200	0.585	1.350	0.567	2.008	0.3015
ARITH. MEAN :	0.325	0.285	0.073	0.099	0.106	0.431	0.0696
ARITH. STD. DEV :	0.297	0.236	0.083	0.176	0.113	0.378	0.0572
GEOM. MEAN :	0.212	0.228	0.044	0.053	0.063	0.299	0.0448
GEOM. STD. DEV. :	2.873	2.133	3.331	3.077	3.048	2.494	3.3931
1ST QUARTILE :	0.085	0.120	0.017	0.030	0.030	0.164	0.0328
2ND QUARTILE :	0.260	0.200	0.045	0.047	0.067	0.292	0.0556
3RD QUARTILE :	0.470	0.385	0.095	0.098	0.125	0.575	0.0902
VOL. WGT. MEAN :	0.236	0.191	0.048	0.075	0.073	0.355	0.0582

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION

#10

PERIOD OF REPORT : JAN 3,82 TO DEC 16,82

PAGE : 1

		PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
		MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES	:	90.0	70.0	41.00	85.00	76.0000	84.00	84.000
MAXIMUM	:	48.0	155.0	5.15	5.45	0.3116	10.50	3.800
MINIMUM	:	0.5	3.2	3.94	3.46	0.0270	0.20	0.030
RANGE	:	47.5	151.8	1.21	1.99	0.2846	10.30	3.770
ARITH. MEAN	:	10.5	38.1	4.36	4.21	0.1063	3.25	0.688
ARITH. STD. DEV	:	10.0	28.4	0.28	0.41	0.0632	2.27	0.607
GEOM. MEAN	:	6.5	29.2	4.35	4.20	0.0896	2.50	0.484
GEOM. STD. DEV.	:	2.9	2.2	1.07	1.10	1.8269	2.19	2.473
1ST QUARTILE	:	3.2	15.8	4.14	3.94	0.0576	1.32	0.305
2ND QUARTILE	:	6.8	33.9	4.29	4.10	0.0928	2.88	0.500
3RD QUARTILE	:	15.3	47.3	4.53	4.51	0.1354	4.27	0.930
VOL. WGT. MEAN	:	*****	30.8	*****	*****	0.0893	2.75	0.485

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION

#10

PERIOD OF REPORT : JAN 3,82 TO DEC 16,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	72.000	83.000	72.000	75.000	73.000	78.000	85.0000
MAXIMUM :	1.230	0.860	0.130	0.800	0.610	1.740	0.3467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0035
RANGE :	1.230	0.860	0.130	0.800	0.610	1.740	0.3432
ARITH. MEAN :	0.272	0.203	0.037	0.055	0.087	0.384	0.0863
ARITH. STD. DEV :	0.267	0.187	0.036	0.103	0.118	0.346	0.0665
GEOM. MEAN :	0.168	0.145	0.038	0.039	0.046	0.264	0.0610
GEOM. STD. DEV. :	3.017	2.422	2.733	2.652	3.758	2.961	2.5477
1ST QUARTILE :	0.070	0.075	0.010	0.015	0.020	0.146	0.0309
2ND QUARTILE :	0.170	0.130	0.025	0.032	0.040	0.299	0.0767
3RD QUARTILE :	0.420	0.255	0.055	0.050	0.103	0.470	0.1109
VOL. WGT. MEAN :	0.200	0.127	0.027	0.040	0.055	0.316	0.0672

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	154.0	93.0	77.00	120.00	120.0000	125.00	123.000
MAXIMUM :	35.5	167.0	5.12	5.54	0.4304	17.20	3.460
MINIMUM :	0.2	4.2	3.52	3.48	0.0194	0.02	0.020
RANGE :	35.3	162.8	1.60	2.06	0.4110	17.17	3.440
ARITH. MEAN :	6.0	34.7	4.24	4.30	0.0968	2.98	0.628
ARITH. STD. DEV :	6.1	28.6	0.30	0.38	0.0731	2.78	0.563
GEOM. MEAN :	3.5	26.7	4.23	4.29	0.0788	1.95	0.434
GEOM. STD. DEV. :	3.2	2.1	1.07	1.09	1.8682	2.76	2.562
1ST QUARTILE :	1.9	15.8	4.05	4.09	0.0569	0.92	0.260
2ND QUARTILE :	3.8	29.6	4.21	4.26	0.0771	2.25	0.460
3RD QUARTILE :	8.1	41.4	4.46	4.50	0.1136	4.00	0.770
VOL. WGT. MEAN :	*****	30.0	*****	*****	0.0908	2.60	0.476

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	94.000	120.000	100.000	102.000	102.000	102.000	120.0000
MAXIMUM :	1.070	1.120	0.190	0.550	0.540	1.800	0.3311
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.008	0.0029
RANGE :	1.070	1.120	0.190	0.550	0.540	1.792	0.3282
ARITH. MEAN :	0.279	0.195	0.031	0.038	0.081	0.321	0.0697
ARITH. STD. DEV :	0.250	0.181	0.038	0.060	0.100	0.332	0.0629
GEOM. MEAN :	0.180	0.148	0.034	0.029	0.057	0.181	0.0497
GEOM. STD. DEV. :	2.944	2.483	2.927	2.731	3.166	3.306	2.3962
1ST QUARTILE :	0.090	0.080	0.005	0.015	0.020	0.078	0.0316
2ND QUARTILE :	0.195	0.135	0.020	0.025	0.040	0.223	0.0550
3RD QUARTILE :	0.420	0.250	0.040	0.045	0.108	0.455	0.0813
VOL. WGT. MEAN :	0.212	0.144	0.024	0.028	0.055	0.270	0.0638

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2,82 TO DEC 24,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	104.0	70.0	0.00	90.00	90.0000	94.00	95.000
MAXIMUM :	46.0	56.0	*****	6.14	0.2260	6.90	1.340
MINIMUM :	0.5	2.0	*****	4.03	0.0188	0.02	0.000
RANGE :	45.5	54.0	*****	2.11	0.2072	6.87	1.340
ARITH. MEAN :	7.3	11.3	*****	4.93	0.0495	1.28	0.260
ARITH. STD. DEV :	7.2	8.7	*****	0.45	0.0272	1.26	0.243
GEOM. MEAN :	4.8	9.2	*****	4.91	0.0449	0.84	0.200
GEOM. STD. DEV. :	2.6	1.9	*****	1.09	1.5165	2.74	2.343
1ST QUARTILE :	2.5	6.3	*****	4.60	0.0347	0.50	0.100
2ND QUARTILE :	5.4	9.9	*****	4.88	0.0440	0.90	0.170
3RD QUARTILE :	8.7	12.8	*****	5.14	0.0553	1.47	0.375
VOL. WGT. MEAN :	*****	9.6	*****	*****	0.0435	1.11	0.202

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2,82 TO DEC 24,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	78.000	90.000	81.000	85.000	80.000	82.000	90.0000
MAXIMUM :	0.570	0.270	0.300	0.425	0.260	3.550	0.0933
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0007
RANGE :	0.570	0.270	0.300	0.425	0.260	3.549	0.0926
ARITH. MEAN :	0.134	0.079	0.025	0.057	0.046	0.320	0.0181
ARITH. STD. DEV :	0.120	0.063	0.043	0.083	0.048	0.442	0.0174
GEOM. MEAN :	0.094	0.086	0.031	0.034	0.030	0.165	0.0117
GEOM. STD. DEV. :	2.679	2.098	3.314	3.074	3.200	3.989	2.8155
1ST QUARTILE :	0.050	0.040	0.004	0.015	0.012	0.092	0.0071
2ND QUARTILE :	0.095	0.060	0.010	0.027	0.035	0.215	0.0133
3RD QUARTILE :	0.180	0.100	0.030	0.060	0.060	0.357	0.0251
VOL. WGT. MEAN :	0.115	0.058	0.019	0.041	0.033	0.248	0.0150

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION

#04

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	137.0	88.0	54.00	106.00	103.0000	118.00	120.000
MAXIMUM :	49.4	142.0	5.92	6.61	0.5604	12.75	3.630
MINIMUM :	0.5	2.5	3.77	3.32	0.0212	0.20	0.010
RANGE :	48.9	139.5	2.15	3.29	0.5392	12.55	3.620
ARITH. MEAN :	8.4	32.7	4.34	4.34	0.0924	3.41	0.692
ARITH. STD. DEV :	8.7	19.8	0.40	0.53	0.0692	2.51	0.589
GEOM. MEAN :	5.0	27.5	4.32	4.31	0.0771	2.61	0.504
GEOM. STD. DEV. :	2.9	1.9	1.09	1.12	1.7895	2.17	2.345
1ST QUARTILE :	1.9	17.6	4.06	4.09	0.0536	1.65	0.320
2ND QUARTILE :	5.3	31.3	4.30	4.25	0.0723	2.75	0.510
3RD QUARTILE :	11.9	41.8	4.49	4.47	0.1121	4.27	0.850
VOL. WGT. MEAN :	*****	29.4	*****	*****	0.0846	2.94	0.464

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION

#04

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	90.000	114.000	91.000	101.000	94.000	103.000	106.0000
MAXIMUM :	2.060	1.150	0.330	0.320	0.650	1.940	0.4786
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.046	0.0002
RANGE :	2.060	1.150	0.330	0.320	0.650	1.894	0.4784
ARITH. MEAN :	0.300	0.258	0.061	0.038	0.099	0.447	0.0715
ARITH. STD. DEV :	0.336	0.253	0.073	0.049	0.139	0.335	0.0696
GEOM. MEAN :	0.181	0.185	0.044	0.032	0.045	0.348	0.0459
GEOM. STD. DEV. :	2.927	2.496	3.117	2.984	4.237	2.081	3.3810
1ST QUARTILE :	0.065	0.100	0.015	0.008	0.010	0.205	0.0324
2ND QUARTILE :	0.175	0.155	0.035	0.020	0.037	0.359	0.0562
3RD QUARTILE :	0.405	0.380	0.072	0.045	0.127	0.540	0.0813
VOL. WGT. MEAN :	0.229	0.163	0.044	0.026	0.059	0.385	0.0591

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3,82 TO DEC 26,82

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	93.0	62.0	28.00	77.00	71.0000	72.00	73.000
MAXIMUM :	44.6	109.0	5.21	5.71	0.2640	10.80	2.850
MINIMUM :	0.4	2.6	3.77	3.45	0.0218	0.10	0.020
RANGE :	44.2	106.4	1.44	2.26	0.2422	10.70	2.830
ARITH. MEAN :	10.8	35.8	4.29	4.27	0.1018	3.30	0.717
ARITH. STD. DEV :	10.4	23.6	0.32	0.50	0.0580	2.41	0.601
GEOM. MEAN :	6.7	27.4	4.28	4.24	0.0854	2.39	0.489
GEOM. STD. DEV. :	3.0	2.3	1.07	1.12	1.8727	2.47	2.662
1ST QUARTILE :	3.3	17.9	4.07	3.93	0.0518	1.25	0.295
2ND QUARTILE :	8.6	27.1	4.23	4.16	0.0898	2.68	0.495
3RD QUARTILE :	13.5	52.5	4.43	4.39	0.1467	5.15	0.980
VOL. WGT. MEAN :	*****	36.1	*****	*****	0.0982	3.34	0.635

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3,82 TO DEC 26,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	60.000	70.000	62.000	66.000	65.000	68.000	77.0000
MAXIMUM :	1.140	1.180	0.190	0.320	0.620	1.420	0.3548
MINIMUM :	0.010	0.000	0.000	0.000	0.000	0.034	0.0019
RANGE :	1.130	1.180	0.190	0.320	0.620	1.386	0.3529
ARITH. MEAN :	0.237	0.250	0.039	0.049	0.109	0.390	0.0849
ARITH. STD. DEV :	0.265	0.250	0.043	0.048	0.144	0.309	0.0702
GEOM. MEAN :	0.140	0.178	0.038	0.037	0.061	0.279	0.0542
GEOM. STD. DEV. :	2.870	2.642	2.911	2.404	3.051	2.430	3.1543
1ST QUARTILE :	0.060	0.075	0.010	0.025	0.025	0.157	0.0368
2ND QUARTILE :	0.135	0.185	0.025	0.035	0.050	0.320	0.0668
3RD QUARTILE :	0.300	0.295	0.050	0.055	0.120	0.560	0.1135
VOL. WGT. MEAN :	0.253	0.196	0.040	0.039	0.090	0.449	0.0704

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	622.0	369.0	316.00	503.00	478.0000	509.00	507.000
MAXIMUM :	41.0	167.0	5.26	5.71	0.5840	24.75	3.460
MINIMUM :	0.0	2.3	3.40	3.35	0.0194	0.02	0.000
RANGE :	41.0	164.7	1.86	2.36	0.5646	24.72	3.460
ARITH. MEAN :	6.5	32.0	4.26	4.30	0.0969	2.89	0.589
ARITH. STD. DEV :	6.8	25.0	0.32	0.39	0.0748	2.82	0.508
GEOM. MEAN :	3.5	24.6	4.25	4.28	0.0789	1.83	0.418
GEOM. STD. DEV. :	3.6	2.1	1.08	1.09	1.8557	2.89	2.509
1ST QUARTILE :	1.4	14.9	4.04	4.05	0.0499	0.90	0.240
2ND QUARTILE :	3.9	26.8	4.22	4.25	0.0785	2.20	0.430
3RD QUARTILE :	9.4	40.3	4.48	4.51	0.1151	3.88	0.760
VOL. WGT. MEAN :	*****	27.7	*****	*****	0.0860	2.44	0.425

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	401.000	486.000	403.000	409.000	410.000	407.000	503.0000
MAXIMUM :	1.120	1.120	0.235	0.750	0.540	1.800	0.4467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0019
RANGE :	1.120	1.120	0.235	0.750	0.540	1.799	0.4447
ARITH. MEAN :	0.217	0.190	0.030	0.047	0.070	0.306	0.0715
ARITH. STD. DEV :	0.222	0.166	0.036	0.068	0.078	0.291	0.0658
GEOM. MEAN :	0.139	0.141	0.031	0.032	0.046	0.175	0.0503
GEOM. STD. DEV. :	2.892	2.572	2.870	2.968	3.193	3.407	2.4390
1ST QUARTILE :	0.060	0.080	0.005	0.015	0.020	0.084	0.0309
2ND QUARTILE :	0.140	0.140	0.020	0.030	0.040	0.215	0.0562
3RD QUARTILE :	0.300	0.270	0.035	0.050	0.095	0.450	0.0891
VOL. WGT. MEAN :	0.157	0.133	0.021	0.035	0.049	0.262	0.0600

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
					MG/L		MG/L
# OF SAMPLES :	364.0	235.0	0.00	310.00	305.0000	307.00	310.000
MAXIMUM :	83.0	56.0	*****	6.54	0.3760	6.90	1.340
MINIMUM :	0.1	1.8	*****	3.58	0.0170	0.00	0.000
RANGE :	82.9	54.2	*****	2.96	0.3590	6.90	1.340
ARITH. MEAN :	7.7	11.4	*****	4.92	0.0501	1.29	0.245
ARITH. STD. DEV :	8.8	8.0	*****	0.50	0.0374	1.29	0.234
GEOM. MEAN :	4.0	9.3	*****	4.90	0.0434	0.85	0.190
GEOM. STD. DEV. :	3.7	1.9	*****	1.11	1.6265	2.67	2.365
1ST QUARTILE :	2.0	6.1	*****	4.60	0.0312	0.45	0.090
2ND QUARTILE :	5.1	9.4	*****	4.87	0.0418	0.85	0.180
3RD QUARTILE :	10.5	13.5	*****	5.18	0.0557	1.60	0.305
VOL. WGT. MEAN :	*****	10.4	*****	*****	0.0437	1.14	0.199

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	LAB MG/L
# OF SAMPLES :	261.000	303.000	267.000	277.000	264.000	274.000	310.0000
MAXIMUM :	0.730	0.780	0.300	0.715	0.260	3.550	0.2630
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0003
RANGE :	0.730	0.780	0.300	0.715	0.260	3.550	0.2627
ARITH. MEAN :	0.151	0.081	0.026	0.049	0.042	0.306	0.0221
ARITH. STD. DEV :	0.152	0.080	0.036	0.077	0.045	0.365	0.0321
GEOM. MEAN :	0.098	0.078	0.039	0.029	0.028	0.153	0.0120
GEOM. STD. DEV. :	2.976	2.262	3.336	3.292	3.144	4.535	3.1815
1ST QUARTILE :	0.040	0.040	0.002	0.010	0.010	0.079	0.0065
2ND QUARTILE :	0.100	0.060	0.015	0.025	0.030	0.209	0.0135
3RD QUARTILE :	0.200	0.100	0.035	0.055	0.055	0.387	0.0251
VOL. WGT. MEAN :	0.129	0.057	0.022	0.034	0.032	0.267	0.0166

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

		PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
		MM	UMHO/CM	FIELD	LAB	TO PH8.3	MG/L	AS N
						MG/L		MG/L
# OF SAMPLES	:	426.0	281.0	153.00	359.00	341.0000	365.00	363.000
MAXIMUM	:	60.6	155.0	5.21	5.99	0.4432	17.75	3.920
MINIMUM	:	0.1	2.6	3.30	3.15	0.0000	0.02	0.000
RANGE	:	60.5	152.4	1.91	2.84	0.4432	17.72	3.920
ARITH. MEAN	:	9.1	36.2	4.30	4.23	0.1020	3.29	0.671
ARITH. STD. DEV	:	9.6	25.7	0.33	0.44	0.0638	2.62	0.559
GEOM. MEAN	:	5.4	27.8	4.29	4.21	0.0863	2.39	0.476
GEOM. STD. DEV.	:	3.1	2.2	1.08	1.11	1.8351	2.39	2.527
1ST QUARTILE	:	2.6	16.8	4.09	3.96	0.0558	1.30	0.300
2ND QUARTILE	:	5.8	30.5	4.28	4.14	0.0910	2.55	0.505
3RD QUARTILE	:	13.0	47.3	4.47	4.44	0.1272	4.35	0.890
VOL. WGT. MEAN	:	*****	31.9	*****	*****	0.0922	2.94	0.520

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 2

	CALCIUM	CHLOPIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	306.000	351.000	305.000	318.000	311.000	319.000	359.0000
MAXIMUM :	1.790	1.180	0.285	0.800	0.705	2.000	0.7079
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0010
RANGE :	1.790	1.180	0.285	0.800	0.705	2.000	0.7069
ARITH. MEAN :	0.253	0.234	0.040	0.055	0.105	0.396	0.0887
ARITH. STD. DEV :	0.275	0.208	0.043	0.081	0.129	0.339	0.0817
GEOM. MEAN :	0.147	0.168	0.034	0.038	0.057	0.270	0.0592
GEOM. STD. DEV. :	3.069	2.547	2.760	2.735	3.504	2.738	2.7694
1ST QUARTILE :	0.060	0.085	0.010	0.015	0.025	0.154	0.0359
2ND QUARTILE :	0.150	0.160	0.025	0.035	0.055	0.318	0.0716
3RD QUARTILE :	0.330	0.320	0.050	0.060	0.135	0.510	0.1084
VOL. WGT. MEAN :	0.211	0.165	0.032	0.042	0.075	0.359	0.0706

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

PAGE : 1

	PRECIP.	CONDUCT.	PH	PH	TOTAL H+	SULPHATE	NITRATE
	MM	UMHO/CM	FIELD	LAB	TO PH8.3 MG/L	MG/L	AS N MG/L
# OF SAMPLES :	532.0	336.0	244.00	399.00	394.0000	446.00	446.000
MAXIMUM :	92.8	170.0	6.43	6.74	0.6696	25.50	3.700
MINIMUM :	0.0	2.5	3.00	3.28	0.0170	0.20	0.005
RANGE :	92.8	167.5	3.43	3.46	0.6526	25.30	3.695
ARITH. MEAN :	7.9	33.6	4.29	4.30	0.1019	3.63	0.689
ARITH. STD. DEV :	8.8	21.1	0.42	0.52	0.0809	2.88	0.568
GEOM. MEAN :	4.3	28.0	4.27	4.27	0.0830	2.72	0.500
GEOM. STD. DEV. :	3.5	1.9	1.10	1.12	1.8578	2.23	2.409
1ST QUARTILE :	1.9	18.8	4.07	4.02	0.0568	1.67	0.300
2ND QUARTILE :	4.7	30.1	4.23	4.23	0.0823	2.88	0.500
3RD QUARTILE :	11.5	41.3	4.46	4.45	0.1197	4.70	0.900
VOL. WGT. MEAN :	*****	29.0	*****	*****	0.0855	2.98	0.467

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

PAGE : 2

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N	FREE H+ LAB
	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
# OF SAMPLES :	341.000	431.000	354.000	382.000	368.000	381.000	399.0000
MAXIMUM :	2.060	1.200	0.585	1.350	0.650	2.950	0.5248
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.012	0.0002
RANGE :	2.060	1.200	0.585	1.350	0.650	2.938	0.5246
ARITH. MEAN :	0.351	0.279	0.074	0.070	0.104	0.452	0.0785
ARITH. STD. DEV :	0.336	0.241	0.080	0.112	0.118	0.397	0.0732
GEOM. MEAN :	0.220	0.207	0.047	0.044	0.060	0.328	0.0502
GEOM. STD. DEV. :	2.896	2.382	3.148	2.988	3.358	2.275	3.3222
1ST QUARTILE :	0.095	0.110	0.020	0.020	0.025	0.185	0.0355
2ND QUARTILE :	0.250	0.200	0.042	0.040	0.060	0.331	0.0582
3RD QUARTILE :	0.490	0.380	0.100	0.075	0.137	0.565	0.0955
VOL. WGT. MEAN :	0.255	0.181	0.049	0.050	0.068	0.354	0.0618

PART V

SUMMARY STATISTICS OF WET DEPOSITION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION

#06

PERIOD OF REPORT : JAN 3, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	140.0	74.0000	115.0000	110.0000	116.00	115.000	96.000
MAXIMUM :	31.1	3.4499	3.5302	4.1128	162.96	13.250	9.882
MINIMUM :	0.2	0.0388	0.0039	0.0113	0.21	0.044	0.022
RANGE :	30.9	3.4110	3.5263	4.1015	162.74	13.206	9.860
ARITH. MEAN :	6.1	0.6445	0.4518	0.6525	18.40	3.092	1.448
ARITH. STD. DEV :	6.2	0.6259	0.5763	0.7067	23.77	2.690	1.675
GEOM. MEAN :	3.5	0.4317	0.2202	0.3643	8.43	1.883	0.826
GEOM. STD. DEV. :	3.2	2.5827	3.8171	3.2844	4.15	3.288	3.164
1ST QUARTILE :	1.5	0.2195	0.0924	0.1516	3.24	1.050	0.361
2ND QUARTILE :	3.5	0.4599	0.2477	0.4207	10.53	2.259	0.918
3RD QUARTILE :	8.2	0.8869	0.5978	0.9097	24.60	4.423	1.886

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	111.000	95.000	104.000	101.000	98.000
MAXIMUM :	6.531	1.620	1.000	2.488	11.988
MINIMUM :	0.000	0.000	0.000	0.000	0.004
RANGE :	6.531	1.620	1.000	2.488	11.984
ARITH. MEAN :	0.947	0.202	0.165	0.336	1.965
ARITH. STD. DEV :	0.993	0.258	0.186	0.441	2.041
GEOM. MEAN :	0.624	0.131	0.115	0.199	0.965
GEOM. STD. DEV. :	2.816	3.159	3.090	2.955	4.534
1ST QUARTILE :	0.281	0.046	0.042	0.083	0.440
2ND QUARTILE :	0.637	0.105	0.096	0.187	1.487
3RD QUARTILE :	1.205	0.282	0.210	0.385	2.821

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2, 82 TO DEC 29,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	126.0	43.0000	112.0000	105.0000	113.00	110.000	94.000
MAXIMUM :	60.6	3.1731	4.5236	5.7345	189.05	33.154	9.472
MINIMUM :	0.1	0.0518	0.0120	0.0275	0.06	0.000	0.018
RANGE :	60.5	3.1213	4.5117	5.7070	188.99	33.154	9.454
ARITH. MEAN :	8.0	0.6581	0.6418	0.8582	23.96	4.113	1.399
ARITH. STD. DEV :	10.0	0.6840	0.7654	0.9905	33.08	4.574	1.792
GEOM. MEAN :	4.3	0.4092	0.3385	0.4790	10.97	2.301	0.645
GEOM. STD. DEV. :	3.2	2.7221	3.3696	3.1390	3.97	3.417	3.983
1ST QUARTILE :	2.0	0.1911	0.1400	0.2118	5.25	0.978	0.264
2ND QUARTILE :	4.6	0.3708	0.3345	0.4834	10.96	2.756	0.688
3RD QUARTILE :	8.6	1.0025	0.8339	1.0460	27.73	5.687	1.681

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NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2, 82 TO DEC 29,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	108.000	94.000	95.000	94.000	93.000
MAXIMUM :	12.492	1.443	1.176	6.767	20.687
MINIMUM :	0.000	0.000	0.000	0.000	0.015
RANGE :	12.492	1.443	1.176	6.767	20.672
ARITH. MEAN :	1.155	0.216	0.223	0.444	3.028
ARITH. STD. DEV :	1.471	0.265	0.265	0.768	3.829
GEOM. MEAN :	0.717	0.133	0.148	0.215	1.472
GEOM. STD. DEV. :	2.865	3.547	3.432	3.796	3.929
1ST QUARTILE :	0.339	0.044	0.046	0.091	0.696
2ND QUARTILE :	0.720	0.127	0.121	0.258	1.707
3RD QUARTILE :	1.504	0.243	0.281	0.543	3.236

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION

#08

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	193.0	92.0000	160.0000	145.0000	153.00	154.000	117.000
MAXIMUM :	34.8	4.4694	4.3677	4.1398	167.79	13.662	7.400
MINIMUM :	0.0	0.0665	0.0026	0.0118	9.03	0.000	0.000
RANGE :	34.8	4.4029	4.3651	4.1280	167.76	13.662	7.400
ARITH. MEAN :	6.0	0.6938	0.4120	0.6404	16.94	2.982	1.078
ARITH. STD. DEV :	6.9	0.7035	0.5529	0.7203	23.88	2.874	1.281
GEOM. MEAN :	2.6	0.4838	0.2050	0.3638	7.25	1.787	0.650
GEOM. STD. DEV. :	4.5	2.3274	3.6084	3.2165	4.46	3.107	3.131
1ST QUARTILE :	1.0	0.2683	0.0853	0.1651	2.77	0.715	0.279
2ND QUARTILE :	3.2	0.4680	0.2186	0.4172	8.50	2.139	0.674
3RD QUARTILE :	8.8	0.8764	0.5405	0.8158	22.75	4.017	1.299

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION

#08

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	146.000	117.000	120.000	119.000	114.000
MAXIMUM :	5.655	1.224	2.262	3.160	14.100
MINIMUM :	0.000	0.000	0.000	0.000	0.006
RANGE :	5.655	1.224	2.262	3.160	14.094
ARITH. MEAN :	0.879	0.170	0.294	0.404	2.323
ARITH. STD. DEV. :	1.003	0.211	0.378	0.548	2.647
GEOM. MEAN :	0.545	0.145	0.177	0.232	1.024
GEOM. STD. DEV. :	2.941	3.155	3.428	3.328	4.821
1ST QUARTILE :	0.240	0.030	0.068	0.085	0.335
2ND QUARTILE :	0.501	0.105	0.167	0.218	1.519
3RD QUARTILE :	1.140	0.235	0.388	0.426	2.919

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION

#16

PERIOD OF REPORT : JAN 2, 82 TO DEC 28,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	90.0	0.0000	85.0000	83.0000	84.00	84.000	74.000
MAXIMUM :	35.8	*****	1.4696	2.0686	74.24	8.308	7.884
MINIMUM :	0.1	*****	0.0005	0.0058	0.00	0.000	0.000
RANGE :	35.7	*****	1.4691	2.0629	74.24	8.308	7.884
ARITH. MEAN :	9.2	*****	0.1532	0.4103	9.38	1.632	1.298
ARITH. STD. DEV :	7.7	*****	0.2316	0.3953	11.01	1.680	1.620
GEOM. MEAN :	5.8	*****	0.0652	0.2473	5.13	1.029	0.659
GEOM. STD. DEV. :	3.2	*****	4.6376	3.2237	3.26	2.937	3.553
1ST QUARTILE :	2.9	*****	0.0333	0.1247	2.21	0.523	0.286
2ND QUARTILE :	7.1	*****	0.0987	0.3044	5.02	1.045	0.733
3RD QUARTILE :	12.8	*****	0.1511	0.5496	13.47	2.404	1.595

***** : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION

#16

PERIOD OF REPORT : JAN 2, 82 TO DEC 28,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	83.000	75.000	76.000	73.000	77.000
MAXIMUM :	2.679	1.620	2.840	1.708	9.840
MINIMUM :	0.000	0.000	0.000	0.000	0.002
RANGE :	2.679	1.620	2.840	1.708	9.837
ARITH. MEAN :	0.523	0.194	0.342	0.323	2.256
ARITH. STD. DEV :	0.473	0.272	0.440	0.406	2.462
GEOM. MEAN :	0.376	0.211	0.188	0.197	0.899
GEOM. STD. DEV. :	2.961	3.080	3.632	3.358	6.481
1ST QUARTILE :	0.188	0.009	0.086	0.077	0.514
2ND QUARTILE :	0.422	0.089	0.241	0.156	1.166
3RD QUARTILE :	0.734	0.244	0.424	0.332	2.955

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION

#13

PERIOD OF REPORT : JAN 2, 82 TO DEC 19,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	131.0	0.0000	104.0000	99.0000	95.00	97.000	81.000
MAXIMUM :	83.0	*****	1.5889	2.5917	99.11	12.710	15.990
MINIMUM :	0.2	*****	0.0006	0.0092	0.00	0.000	0.000
RANGE :	82.8	*****	1.5883	2.5825	99.11	12.710	15.990
ARITH. MEAN :	6.4	*****	0.1518	0.3792	10.99	1.803	1.332
ARITH. STD. DEV :	10.1	*****	0.2241	0.4421	16.24	2.357	2.577
GEOM. MEAN :	2.6	*****	0.0588	0.2033	4.17	0.871	0.593
GEOM. STD. DEV. :	4.4	*****	5.0238	3.3480	4.54	3.921	3.678
1ST QUARTILE :	0.7	*****	0.0218	0.0748	1.17	0.293	0.241
2ND QUARTILE :	2.9	*****	0.0760	0.2239	3.91	0.858	0.529
3RD QUARTILE :	8.6	*****	0.1981	0.4818	14.52	2.136	1.442

***** : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2, 82 TO DEC 19,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	97.000	83.000	87.000	82.000	85.000
MAXIMUM :	3.320	3.485	2.870	3.735	30.750
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.320	3.485	2.870	3.735	30.750
ARITH. MEAN :	0.464	0.242	0.255	0.309	2.885
ARITH. STD. DEV. :	0.555	0.584	0.433	0.508	5.184
GEOM. MEAN :	0.331	0.157	0.134	0.160	0.879
GEOM. STD. DEV. :	2.785	4.049	3.667	3.541	6.655
1ST QUARTILE :	0.108	0.006	0.042	0.049	0.227
2ND QUARTILE :	0.267	0.056	0.112	0.140	1.148
3RD QUARTILE :	0.588	0.154	0.261	0.330	3.032

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION

#12

PERIOD OF REPORT : JAN 3, 82 TO DEC 29,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	117.0	41.0000	85.0000	89.0000	96.00	96.000	80.000
MAXIMUM :	52.0	2.2495	3.6677	4.0664	137.02	25.636	32.266
MINIMUM :	0.2	0.0401	0.0021	0.0000	0.36	0.060	0.120
RANGE :	51.8	2.2094	3.6655	4.0664	136.66	25.576	32.146
ARITH. MEAN :	7.9	0.5478	0.5728	0.7527	24.18	4.168	2.391
ARITH. STD. DEV :	7.8	0.4769	0.6412	0.7025	24.92	3.523	3.985
GEOM. MEAN :	4.9	0.3749	0.2903	0.5061	14.74	2.909	1.365
GEOM. STD. DEV. :	2.9	2.5776	3.9581	2.6549	2.97	2.680	2.771
1ST QUARTILE :	2.3	0.2216	0.1144	0.2752	8.47	1.965	0.767
2ND QUARTILE :	5.3	0.3933	0.3340	0.5100	16.99	3.271	1.361
3RD QUARTILE :	10.2	0.6911	0.7636	1.0440	29.11	5.830	2.667

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3, 82 TO DEC 29,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	90.000	77.000	82.000	79.000	80.000
MAXIMUM :	13.481	5.525	7.072	9.503	22.952
MINIMUM :	0.120	0.000	0.000	0.000	0.059
RANGE :	13.361	5.525	7.072	9.503	22.893
ARITH. MEAN :	1.964	0.391	0.682	1.131	3.270
ARITH. STD. DEV :	1.976	0.660	1.074	1.332	3.243
GEOM. MEAN :	1.376	0.250	0.374	0.811	2.021
GEOM. STD. DEV. :	2.413	2.831	3.002	2.238	3.102
1ST QUARTILE :	0.810	0.108	0.148	0.466	1.127
2ND QUARTILE :	1.545	0.235	0.386	0.763	2.500
3RD QUARTILE :	2.497	0.455	0.729	1.313	4.934

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25, 82 TO DEC 23,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	39.0	0.0000	31.0000	33.0000	34.00	34.000	28.000
MAXIMUM :	40.4	*****	0.9701	2.1110	72.79	11.729	8.640
MINIMUM :	0.2	*****	0.0034	0.0061	0.35	0.000	0.000
RANGE :	40.2	*****	0.9667	2.1049	72.44	11.729	8.640
ARITH. MEAN :	9.6	*****	0.1684	0.4295	13.91	2.463	2.022
ARITH. STD. DEV :	9.6	*****	0.2370	0.4600	17.30	2.758	2.047
GEOM. MEAN :	5.1	*****	0.0666	0.2395	6.74	1.430	1.272
GEOM. STD. DEV. :	3.8	*****	4.6241	3.5169	3.82	3.467	2.927
1ST QUARTILE :	2.2	*****	0.0204	0.1296	2.80	0.570	0.483
2ND QUARTILE :	6.5	*****	0.0856	0.2342	7.65	1.611	1.393
3RD QUARTILE :	14.0	*****	0.1910	0.5017	18.80	3.392	2.811

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***** : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25, 82 TO DEC 23,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	33.000	28.000	29.000	29.000	30.000
MAXIMUM :	2.831	1.440	2.960	1.320	12.213
MINIMUM :	0.000	0.000	0.029	0.011	0.004
RANGE :	2.831	1.440	2.931	1.308	12.209
ARITH. MEAN :	0.708	0.336	0.520	0.421	3.935
ARITH. STD. DEV :	0.621	0.329	0.590	0.365	3.891
GEOM. MEAN :	0.572	0.327	0.311	0.256	1.730
GEOM. STD. DEV. :	2.238	2.445	3.007	3.221	6.077
1ST QUARTILE :	0.273	0.089	0.142	0.099	0.851
2ND QUARTILE :	0.547	0.212	0.363	0.254	2.768
3RD QUARTILE :	0.924	0.565	0.645	0.626	6.267

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION

#02

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	139.0	71.0000	99.0000	97.0000	109.00	107.000	86.000
MAXIMUM :	40.0	3.3271	2.6060	3.8080	138.00	17.600	19.899
MINIMUM :	0.1	0.0060	0.0007	0.0135	0.52	0.060	0.092
RANGE :	39.9	3.3211	2.6052	3.7945	137.48	17.540	19.807
ARITH. MEAN :	7.3	0.7414	0.5605	0.8034	25.50	4.203	3.248
ARITH. STD. DEV :	8.1	0.6810	0.5440	0.7054	25.63	3.289	3.753
GEOM. MEAN :	3.6	0.4886	0.3126	0.5178	15.24	2.822	2.017
GEOM. STD. DEV. :	3.9	2.9170	4.0942	3.0835	3.13	2.943	2.658
1ST QUARTILE :	1.5	0.3170	0.1832	0.3031	7.65	1.868	1.001
2ND QUARTILE :	4.3	0.5980	0.4019	0.6317	15.79	3.305	2.024
3RD QUARTILE :	10.9	0.8965	0.7310	1.0309	34.51	5.945	3.304

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION #02

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	104.000	92.000	98.000	94.000	96.000
MAXIMUM :	9.504	2.979	3.460	6.831	13.248
MINIMUM :	0.000	0.016	0.000	0.000	0.065
RANGE :	9.504	2.962	3.460	6.831	13.183
ARITH. MEAN :	1.676	0.634	0.479	0.688	3.202
ARITH. STD. DEV :	1.458	0.714	0.587	0.930	2.908
GEOM. MEAN :	1.223	0.374	0.296	0.455	2.074
GEOM. STD. DEV. :	2.367	2.903	2.727	2.486	2.841
1ST QUARTILE :	0.790	0.171	0.147	0.219	1.258
2ND QUARTILE :	1.310	0.401	0.287	0.444	2.306
3RD QUARTILE :	2.184	0.693	0.524	0.887	4.240

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ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION

#01

PERIOD OF REPORT : JAN 13, 82 TO DEC 28,82

PAGE : 1

	PRECIP.	FREE H+ FIELD	FREE H+ LAB	TOTAL H+ TO PH8.3	SULPHATE	NITRATE AS N	CALCIUM
	MM	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	98.0	58.0000	91.0000	88.0000	85.00	86.000	72.000
MAXIMUM :	92.8	9.4994	6.5720	9.8587	329.55	36.204	15.939
MINIMUM :	0.4	0.0206	0.0002	0.0336	0.75	0.160	0.288
RANGE :	92.4	9.4788	6.5718	9.8251	328.80	36.044	15.651
ARITH. MEAN :	9.9	0.8698	0.7190	0.9475	34.62	5.017	2.982
ARITH. STD. DEV :	11.2	1.3325	0.9838	1.2282	44.07	4.744	3.112
GEOM. MEAN :	6.2	0.5574	0.3837	0.6095	23.14	3.708	1.910
GEOM. STD. DEV. :	2.8	2.4463	3.9883	2.6645	2.45	2.283	2.577
1ST QUARTILE :	3.1	0.3771	0.2176	0.4140	13.62	2.440	0.899
2ND QUARTILE :	6.3	0.5679	0.4805	0.6941	26.02	4.095	1.740
3RD QUARTILE :	14.3	0.7412	0.7625	1.0958	36.69	5.722	3.788

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION

#01

PERIOD OF REPORT : JAN 13, 82 TO DEC 28,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	86.000	75.000	76.000	72.000	75.000
MAXIMUM :	18.216	2.541	4.800	6.353	21.000
MINIMUM :	0.000	0.000	0.000	0.000	0.452
RANGE :	18.216	2.541	4.800	6.353	20.548
ARITH. MEAN :	2.020	0.508	0.562	0.833	4.025
ARITH. STD. DEV :	2.378	0.512	0.774	1.025	3.710
GEOM. MEAN :	1.375	0.354	0.344	0.491	2.976
GEOM. STD. DEV. :	2.362	2.560	2.676	3.073	2.183
1ST QUARTILE :	0.747	0.154	0.151	0.199	1.917
2ND QUARTILE :	1.256	0.381	0.343	0.508	3.002
3RD QUARTILE :	2.499	0.616	0.641	1.004	4.716

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION

#07

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	135.0	73.0000	108.0000	103.0000	115.00	115.000	94.000
MAXIMUM :	41.0	5.6596	4.3932	5.5268	205.00	16.400	8.977
MINIMUM :	0.3	0.0901	0.0182	0.0125	0.12	0.000	0.000
RANGE :	40.7	5.5695	4.3751	5.5143	204.88	16.400	8.977
ARITH. MEAN :	8.4	0.7022	0.4957	0.7662	20.55	3.481	1.447
ARITH. STD. DEV :	7.8	0.7654	0.5837	0.7660	26.28	3.177	1.533
GEOM. MEAN :	5.2	0.4846	0.2786	0.4788	9.83	2.111	1.019
GEOM. STD. DEV. :	2.9	2.3566	3.1950	2.9996	4.07	3.390	2.270
1ST QUARTILE :	2.4	0.2784	0.1262	0.2900	4.64	1.061	0.560
2ND QUARTILE :	5.9	0.4696	0.3186	0.5344	12.12	2.725	1.002
3RD QUARTILE :	12.3	0.9204	0.5827	0.9658	28.42	4.388	1.665

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	109.000	91.000	83.000	88.000	93.000
MAXIMUM :	8.184	1.414	2.828	5.022	14.596
MINIMUM :	0.065	0.000	0.031	0.000	0.001
RANGE :	8.119	1.414	2.797	5.022	14.595
ARITH. MEAN :	1.323	0.208	0.612	0.572	2.907
ARITH. STD. DEV :	1.288	0.263	0.550	0.694	3.027
GEOM. MEAN :	0.921	0.194	0.384	0.367	1.442
GEOM. STD. DEV. :	2.402	2.694	2.968	2.737	4.757
1ST QUARTILE :	0.479	0.038	0.190	0.184	0.846
2ND QUARTILE :	0.972	0.118	0.460	0.337	1.855
3RD QUARTILE :	1.482	0.265	0.871	0.714	3.847

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	158.0	61.0000	103.0000	106.0000	134.00	133.000	93.000
MAXIMUM :	48.5	10.4000	3.2894	4.5299	184.50	18.096	17.000
MINIMUM :	0.0	0.0084	0.0004	0.0197	0.67	0.081	0.000
RANGE :	48.5	10.3916	3.2890	4.5102	183.83	18.015	17.000
ARITH. MEAN :	6.9	0.7888	0.5040	0.7183	23.06	3.773	2.292
ARITH. STD. DEV :	7.4	1.3501	0.5690	0.7228	27.05	3.195	2.481
GEOM. MEAN :	3.6	0.4351	0.2396	0.4413	12.38	2.479	1.433
GEOM. STD. DEV. :	3.8	3.2981	4.8613	2.9992	3.36	2.888	2.822
1ST QUARTILE :	1.4	0.2431	0.1099	0.2262	5.09	1.492	0.698
2ND QUARTILE :	4.2	0.5067	0.3274	0.5362	14.57	2.839	1.418
3RD QUARTILE :	9.4	0.8659	0.7017	1.0051	31.13	4.937	3.125

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	127.000	96.000	107.000	108.000	107.000
MAXIMUM :	16.038	2.720	10.010	5.232	20.570
MINIMUM :	0.000	0.000	0.000	0.026	0.064
RANGE :	16.038	2.720	10.010	5.206	20.506
ARITH. MEAN :	1.558	0.448	0.673	0.673	3.197
ARITH. STD. DEV :	1.704	0.487	1.222	0.768	3.501
GEOM. MEAN :	1.121	0.270	0.320	0.411	1.865
GEOM. STD. DEV. :	2.344	3.144	3.535	2.813	3.081
1ST QUARTILE :	0.580	0.107	0.147	0.222	0.801
2ND QUARTILE :	1.275	0.277	0.335	0.416	1.967
3RD QUARTILE :	2.057	0.587	0.692	0.928	4.406

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION

#10

PERIOD OF REPORT : JAN 3, 82 TO DEC 16,82

PAGE : 1

	PRECIP.	FREE H+	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM
	MM	FIELD	LAB	TO PH8.3		AS N	
		MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	90.0	41.0000	84.0000	75.0000	84.00	84.000	72.000
MAXIMUM :	48.0	2.4830	3.9670	3.7670	140.61	38.214	21.414
MINIMUM :	0.5	0.0297	0.0149	0.0876	0.84	0.210	0.000
RANGE :	47.5	2.4532	3.9520	3.6794	139.77	38.004	21.414
ARITH. MEAN :	10.5	0.6272	0.7461	1.0797	30.74	5.418	2.498
ARITH. STD. DEV :	10.0	0.5223	0.7393	0.8869	30.41	5.370	3.466
GEOM. MEAN :	6.5	0.4293	0.4317	0.7313	18.50	3.587	1.394
GEOM. STD. DEV. :	2.9	2.6703	3.2564	2.6237	3.04	2.670	2.879
1ST QUARTILE :	3.2	0.2451	0.2027	0.3422	9.82	1.944	0.613
2ND QUARTILE :	6.8	0.4823	0.4821	0.8203	19.58	3.952	1.456
3RD QUARTILE :	15.3	0.8094	1.1435	1.5742	43.81	7.281	2.346

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NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION

#10

PERIOD OF REPORT : JAN 3, 82 TO DEC 16,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	83.000	72.000	75.000	73.000	78.000
MAXIMUM :	6.948	2.284	8.640	3.321	33.582
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	6.948	2.284	8.640	3.321	33.582
ARITH. MEAN :	1.420	0.337	0.483	0.680	3.749
ARITH. STD. DEV :	1.211	0.424	1.026	0.723	4.611
GEOM. MEAN :	1.004	0.256	0.287	0.358	2.093
GEOM. STD. DEV. :	2.488	2.783	2.910	3.869	3.719
1ST QUARTILE :	0.514	0.071	0.122	0.112	1.068
2ND QUARTILE :	1.038	0.208	0.255	0.402	2.405
3RD QUARTILE :	1.939	0.416	0.504	1.157	4.438

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION

#05

PERIOD OF REPORT : JAN 3, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	154.0	77.0000	120.0000	120.0000	125.00	123.000	94.000
MAXIMUM :	35.5	4.0760	3.8039	4.4730	147.32	17.750	12.505
MINIMUM :	0.2	0.0205	0.0018	0.0075	0.08	0.014	0.000
RANGE :	35.3	4.0555	3.8021	4.4655	147.24	17.736	12.505
ARITH. MEAN :	6.0	0.6323	0.4410	0.6202	17.62	3.268	1.720
ARITH. STD. DEV :	6.1	0.6040	0.5463	0.6699	22.10	2.844	1.853
GEOM. MEAN :	3.5	0.4406	0.2218	0.3276	8.62	1.973	1.053
GEOM. STD. DEV. :	3.2	2.4770	3.9258	3.7151	3.91	3.493	2.929
1ST QUARTILE :	1.9	0.2238	0.1004	0.1484	3.09	0.976	0.459
2ND QUARTILE :	3.8	0.4867	0.2818	0.4300	10.57	2.523	1.203
3RD QUARTILE :	8.1	0.8865	0.6011	0.9714	25.05	4.864	2.220

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	120.000	100.000	102.000	102.000	102.000
MAXIMUM :	6.745	2.153	1.952	2.541	16.605
MINIMUM :	0.000	0.000	0.000	0.000	0.018
RANGE :	6.745	2.153	1.952	2.541	16.587
ARITH. MEAN :	1.009	0.190	0.214	0.432	2.161
ARITH. STD. DEV. :	1.148	0.284	0.285	0.504	2.410
GEOM. MEAN :	0.630	0.155	0.145	0.280	1.096
GEOM. STD. DEV. :	2.915	2.904	2.828	3.067	3.994
1ST QUARTILE :	0.252	0.042	0.063	0.091	0.467
2ND QUARTILE :	0.708	0.101	0.118	0.249	1.453
3RD QUARTILE :	1.363	0.229	0.254	0.613	3.019

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2, 82 TO DEC 24,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	104.0	0.0000	90.0000	90.0000	94.00	95.000	78.000
MAXIMUM :	46.0	*****	1.2381	1.9964	73.60	12.880	9.200
MINIMUM :	0.5	*****	0.0011	0.0252	0.05	0.000	0.000
RANGE :	45.5	*****	1.2370	1.9712	73.55	12.880	9.200
ARITH. MEAN :	7.3	*****	0.1130	0.3294	8.54	1.545	0.993
ARITH. STD. DEV :	7.2	*****	0.1580	0.2974	12.13	1.884	1.350
GEOM. MEAN :	4.8	*****	0.0583	0.2319	4.48	1.012	0.580
GEOM. STD. DEV. :	2.6	*****	3.6300	2.4148	3.41	2.689	2.956
1ST QUARTILE :	2.5	*****	0.0275	0.1301	2.21	0.475	0.274
2ND QUARTILE :	5.4	*****	0.0648	0.2439	5.04	1.087	0.594
3RD QUARTILE :	8.7	*****	0.1368	0.4484	10.31	1.902	1.083

***** : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2, 82 TO DEC 24,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	90.000	81.000	85.000	80.000	82.000
MAXIMUM :	2.300	1.610	1.912	1.250	12.880
MINIMUM :	0.000	0.000	0.000	0.000	0.007
RANGE :	2.300	1.610	1.912	1.250	12.873
ARITH. MEAN :	0.461	0.158	0.336	0.271	2.080
ARITH. STD. DEV :	0.453	0.267	0.408	0.285	2.280
GEOM. MEAN :	0.390	0.134	0.183	0.170	0.999
GEOM. STD. DEV. :	2.319	3.261	3.709	3.002	4.325
1ST QUARTILE :	0.157	0.018	0.061	0.057	0.348
2ND QUARTILE :	0.348	0.068	0.191	0.154	1.435
3RD QUARTILE :	0.577	0.171	0.402	0.380	2.886

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION

#04

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	137.0	54.0000	106.0000	103.0000	118.00	120.000	90.000
MAXIMUM :	49.4	4.1109	3.6971	4.8329	207.68	19.012	17.550
MINIMUM :	0.5	0.0064	0.0004	0.0333	1.14	0.026	0.000
RANGE :	48.9	4.1046	3.6966	4.7996	206.54	18.986	17.550
ARITH. MEAN :	8.4	0.7847	0.5559	0.8391	26.73	4.265	2.565
ARITH. STD. DEV :	8.7	0.7865	0.6497	0.9018	32.54	3.665	3.159
GEOM. MEAN :	5.0	0.4927	0.2676	0.4951	15.23	2.965	1.394
GEOM. STD. DEV. :	2.9	3.1890	4.7979	3.0725	3.01	2.579	3.141
1ST QUARTILE :	1.9	0.3015	0.1227	0.2284	7.35	1.881	0.568
2ND QUARTILE :	5.3	0.5863	0.3340	0.5660	14.70	2.804	1.504
3RD QUARTILE :	11.9	0.9058	0.7548	1.1043	31.99	5.698	2.956

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION

#04

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	114.000	91.000	101.000	94.000	103.000
MAXIMUM :	10.260	2.601	2.336	6.405	18.236
MINIMUM :	0.000	0.000	0.000	0.000	0.163
RANGE :	10.260	2.601	2.336	6.405	18.073
ARITH. MEAN :	1.542	0.485	0.278	0.646	3.994
ARITH. STD. DEV :	1.574	0.591	0.372	0.918	4.062
GEOM. MEAN :	1.052	0.293	0.190	0.321	2.552
GEOM. STD. DEV. :	2.519	3.198	3.045	3.762	2.691
1ST QUARTILE :	0.473	0.082	0.056	0.109	1.407
2ND QUARTILE :	1.033	0.264	0.159	0.264	2.360
3RD QUARTILE :	2.072	0.566	0.347	0.833	4.842

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3, 82 TO DEC 26,82

PAGE : 1

	PRECIP.	FREE H+ FIELD	FREE H+ LAB	TOTAL H+ TO PH8.3	SULPHATE	NITRATE AS N	CALCIUM
	MM	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	93.0	28.0000	77.0000	71.0000	72.00	73.000	60.000
MAXIMUM :	44.6	2.3467	4.6892	6.7093	280.66	67.623	24.096
MINIMUM :	0.4	0.0358	0.0031	0.0368	0.58	0.116	0.140
RANGE :	44.2	2.3109	4.6861	6.6725	280.08	67.507	23.956
ARITH. MEAN :	10.8	0.7233	0.8515	1.2697	41.79	7.800	3.528
ARITH. STD. DEV :	10.4	0.5689	0.9615	1.3014	53.59	10.909	5.521
GEOM. MEAN :	6.7	0.5210	0.4158	0.7296	19.89	4.023	1.543
GEOM. STD. DEV. :	3.0	2.4976	4.2207	3.2556	3.79	3.375	3.543
1ST QUARTILE :	3.3	0.3383	0.1894	0.3407	8.81	1.675	0.634
2ND QUARTILE :	8.6	0.5564	0.5305	0.9241	20.15	4.610	1.420
3RD QUARTILE :	13.5	0.9717	1.1639	1.7652	51.78	8.222	3.479

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3, 82 TO DEC 26,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	70.000	62.000	66.000	65.000	68.000
MAXIMUM :	12.375	3.775	2.124	6.630	62.319
MINIMUM :	0.000	0.000	0.000	0.000	0.142
RANGE :	12.375	3.775	2.124	6.630	62.177
ARITH. MEAN :	2.428	0.545	0.539	1.245	6.067
ARITH. STD. DEV :	2.576	0.844	0.506	1.606	9.884
GEOM. MEAN :	1.427	0.319	0.371	0.615	2.801
GEOM. STD. DEV. :	3.150	3.260	2.559	3.584	3.515
1ST QUARTILE :	0.615	0.091	0.152	0.215	1.086
2ND QUARTILE :	1.530	0.219	0.363	0.600	2.604
3RD QUARTILE :	3.136	0.462	0.725	1.609	6.646

PART VI

SUMMARY STATISTICS OF WET DEPOSITION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	622.0	316.0000	503.0000	478.0000	509.00	507.000	401.000
MAXIMUM :	41.0	5.6596	4.3932	5.5268	205.00	17.750	12.505
MINIMUM :	0.0	0.0205	0.0018	0.0075	0.03	0.000	0.000
RANGE :	41.0	5.6391	4.3914	5.5193	204.97	17.750	12.505
ARITH. MEAN :	6.5	0.6692	0.4460	0.6652	18.25	3.190	1.404
ARITH. STD. DEV :	6.8	0.6757	0.5626	0.7149	23.97	2.896	1.595
GEOM. MEAN :	3.5	0.4606	0.2268	0.3761	8.39	1.924	0.857
GEOM. STD. DEV. :	3.6	2.4241	3.6447	3.3212	4.17	3.298	2.935
1ST QUARTILE :	1.4	0.2586	0.1004	0.1645	3.20	0.940	0.437
2ND QUARTILE :	3.9	0.4740	0.2689	0.4509	10.37	2.405	0.861
3RD QUARTILE :	9.4	0.8883	0.5752	0.9161	24.27	4.534	1.765

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	486.000	403.000	409.000	410.000	407.000
MAXIMUM :	8.184	2.153	2.828	5.022	16.605
MINIMUM :	0.000	0.000	0.000	0.000	0.001
RANGE :	8.184	2.153	2.828	5.022	16.604
ARITH. MEAN :	1.026	0.191	0.306	0.430	2.330
ARITH. STD. DEV :	1.116	0.253	0.397	0.553	2.566
GEOM. MEAN :	0.655	0.154	0.177	0.258	1.110
GEOM. STD. DEV. :	2.831	2.988	3.378	3.098	4.534
1ST QUARTILE :	0.302	0.041	0.064	0.104	0.505
2ND QUARTILE :	0.693	0.109	0.166	0.250	1.566
3RD QUARTILE :	1.342	0.246	0.393	0.508	3.362

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	364.0	0.0000	310.0000	305.0000	307.00	310.000	261.000
MAXIMUM :	83.0	*****	1.5889	2.5917	99.11	12.880	15.990
MINIMUM :	0.1	*****	0.0005	0.0058	0.00	0.000	0.000
RANGE :	82.9	*****	1.5884	2.5859	99.11	12.880	15.990
ARITH. MEAN :	7.7	*****	0.1426	0.3784	10.12	1.750	1.295
ARITH. STD. DEV :	8.8	*****	0.2106	0.3932	13.92	2.109	1.959
GEOM. MEAN :	4.0	*****	0.0611	0.2269	4.76	1.008	0.659
GEOM. STD. DEV. :	3.7	*****	4.4335	3.0461	3.76	3.232	3.399
1ST QUARTILE :	2.0	*****	0.0258	0.1149	2.00	0.444	0.289
2ND QUARTILE :	5.1	*****	0.0782	0.2641	5.10	1.068	0.614
3RD QUARTILE :	10.5	*****	0.1695	0.5111	12.90	2.106	1.482

***** : INSUFFICIENT DATA

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	303.000	267.000	277.000	264.000	274.000
MAXIMUM :	3.320	3.485	2.960	3.735	30.750
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.320	3.485	2.960	3.735	30.750
ARITH. MEAN :	0.506	0.213	0.331	0.314	2.582
ARITH. STD. DEV. :	0.515	0.401	0.450	0.406	3.666
GEOM. MEAN :	0.382	0.176	0.177	0.182	0.990
GEOM. STD. DEV. :	2.662	3.467	3.683	3.302	5.818
1ST QUARTILE :	0.149	0.015	0.066	0.067	0.390
2ND QUARTILE :	0.349	0.079	0.183	0.164	1.376
3RD QUARTILE :	0.682	0.216	0.409	0.387	3.216

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1, 83

PAGE : 1

	PRECIP.	FREE H+	FREE H+	TOTAL H+	SULPHATE	NITRATE	CALCIUM
	MM	FIELD	LAB	TO PH8.3	MG/M**2	AS N	MG/M**2
		MG/M**2	MG/M**2	MG/M**2		MG/M**2	
# OF SAMPLES :	426.0	153.0000	358.0000	340.0000	365.00	363.000	306.000
MAXIMUM :	60.6	3.1731	4.6892	6.7093	280.66	67.623	32.266
MINIMUM :	0.1	0.0297	0.0021	0.0000	0.06	0.000	0.000
RANGE :	60.5	3.1433	4.6870	6.7093	280.59	67.623	32.266
ARITH. MEAN :	9.1	0.6322	0.6950	0.9654	29.10	5.171	2.334
ARITH. STD. DEV :	9.6	0.5675	0.7830	0.9941	36.29	6.469	3.787
GEOM. MEAN :	5.4	0.4232	0.3612	0.5825	15.04	3.035	1.116
GEOM. STD. DEV. :	3.1	2.6204	3.6750	2.9622	3.51	3.086	3.483
1ST QUARTILE :	2.6	0.2430	0.1509	0.2752	6.71	1.622	0.520
2ND QUARTILE :	5.8	0.4432	0.4082	0.6237	16.74	3.339	1.173
3RD QUARTILE :	13.0	0.8465	0.9317	1.3215	37.79	6.636	2.415

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	351.000	305.000	318.000	311.000	319.000
MAXIMUM :	13.481	5.525	8.640	9.503	62.319
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	13.481	5.525	8.640	9.503	62.319
ARITH. MEAN :	1.679	0.356	0.468	0.841	3.913
ARITH. STD. DEV :	1.881	0.573	0.803	1.178	5.824
GEOM. MEAN :	1.053	0.217	0.266	0.423	1.992
GEOM. STD. DEV. :	2.820	3.259	3.263	3.745	3.631
1ST QUARTILE :	0.511	0.070	0.109	0.179	0.976
2ND QUARTILE :	1.123	0.189	0.263	0.498	2.271
3RD QUARTILE :	2.236	0.418	0.552	1.042	4.777

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	532.0	244.0000	399.0000	394.0000	446.00	446.000	341.000
MAXIMUM :	92.8	10.4000	6.5720	9.8587	329.55	36.204	19.899
MINIMUM :	0.0	0.0060	0.0002	0.0135	0.52	0.026	0.000
RANGE :	92.8	10.3940	6.5718	9.8451	329.03	36.178	19.899
ARITH. MEAN :	7.9	0.7934	0.5808	0.8220	26.83	4.248	2.751
ARITH. STD. DEV :	8.8	1.0664	0.7016	0.9015	32.24	3.698	3.156
GEOM. MEAN :	4.3	0.4906	0.2935	0.5084	15.50	2.900	1.648
GEOM. STD. DEV. :	3.5	2.9500	4.4695	2.9695	3.09	2.719	2.837
1ST QUARTILE :	1.9	0.3083	0.1709	0.2626	7.60	1.896	0.780
2ND QUARTILE :	4.7	0.5759	0.3841	0.6074	16.86	3.268	1.658
3RD QUARTILE :	11.5	0.8751	0.7460	1.0578	33.45	5.634	3.263

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

PAGE : 2

	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	431.000	354.000	382.000	368.000	381.000
MAXIMUM :	18.216	2.979	10.010	6.831	21.000
MINIMUM :	0.000	0.000	0.000	0.000	0.064
RANGE :	18.216	2.979	10.010	6.831	20.936
ARITH. MEAN :	1.674	0.519	0.497	0.701	3.577
ARITH. STD. DEV :	1.778	0.587	0.824	0.901	3.579
GEOM. MEAN :	1.173	0.318	0.277	0.410	2.286
GEOM. STD. DEV. :	2.405	2.988	3.114	3.041	2.771
1ST QUARTILE :	0.614	0.133	0.107	0.185	1.270
2ND QUARTILE :	1.247	0.322	0.272	0.419	2.426
3RD QUARTILE :	2.151	0.628	0.534	0.930	4.429

PART VII

SUMMARY STATISTICS OF AIR CONCENTRATION BY STATION, REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR

#11

PERIOD OF REPORT : JAN 1,82 TO DEC 28,82

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	331.0	318.00	323.00	301.000	333.00	322.00
MAXIMUM :	43.5	20.28	2.62	3.223	1.86	2.84
MINIMUM :	0.0	0.00	0.00	0.003	0.00	0.00
RANGE :	43.5	20.28	2.62	3.220	1.86	2.84
ARITH. MEAN :	6.2	3.47	0.41	0.665	0.18	0.58
ARITH. STD. DEV :	6.6	3.16	0.39	0.551	0.28	0.50
GEOM. MEAN :	3.4	2.28	0.27	0.416	0.13	0.40
GEOM. STD. DEV. :	3.4	2.85	3.11	3.229	3.67	2.94
1ST QUARTILE :	1.3	1.16	0.11	0.222	0.03	0.20
2ND QUARTILE :	4.3	2.53	0.31	0.505	0.08	0.48
3RD QUARTILE :	8.5	4.74	0.59	1.004	0.20	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR

#08

PERIOD OF REPORT : JAN 1,82 TO DEC 20,82

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	331.0	326.00	335.00	327.000	329.00	329.00
MAXIMUM :	46.2	34.19	1.82	4.665	0.86	2.40
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	46.2	34.19	1.82	4.665	0.86	2.40
ARITH. MEAN :	4.7	3.26	0.33	0.575	0.05	0.37
ARITH. STD. DEV :	6.8	4.38	0.36	0.671	0.11	0.41
GEOM. MEAN :	1.9	1.76	0.19	0.317	0.09	0.22
GEOM. STD. DEV. :	4.7	3.41	3.22	3.530	5.17	3.17
1ST QUARTILE :	0.5	0.80	0.07	0.126	0.00	0.09
2ND QUARTILE :	2.0	2.08	0.18	0.385	0.00	0.22
3RD QUARTILE :	6.2	4.09	0.46	0.756	0.03	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR

#16

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	308.0	305.00	311.00	296.000	310.00	310.00
MAXIMUM :	17.0	9.72	0.88	2.021	0.93	1.23
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	17.0	9.72	0.88	2.021	0.93	1.23
ARITH. MEAN :	1.5	1.42	0.12	0.352	0.04	0.17
ARITH. STD. DEV :	2.1	1.48	0.15	0.422	0.12	0.21
GEOM. MEAN :	1.0	0.93	0.08	0.194	0.15	0.10
GEOM. STD. DEV. :	3.1	2.73	3.28	3.325	5.39	3.56
1ST QUARTILE :	0.1	0.51	0.03	0.096	0.00	0.03
2ND QUARTILE :	0.7	0.93	0.07	0.187	0.00	0.08
3RD QUARTILE :	2.1	1.74	0.16	0.447	0.02	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR

#02

PERIOD OF REPORT : DEC 31,81 TO JAN 1,83

PAGE : 1

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	307.0	323.00	332.00	260.000	333.00	330.00
MAXIMUM :	62.8	40.43	3.99	8.323	3.03	6.43
MINIMUM :	0.0	0.00	0.00	0.003	0.00	0.03
RANGE :	62.8	40.43	3.99	8.320	3.03	6.40
ARITH. MEAN :	10.6	5.20	0.68	0.893	0.38	1.06
ARITH. STD. DEV :	11.5	5.11	0.64	0.997	0.45	0.83
GEOM. MEAN :	5.9	3.40	0.45	0.561	0.23	0.78
GEOM. STD. DEV. :	3.2	2.84	2.64	2.937	3.40	2.32
1ST QUARTILE :	3.0	2.07	0.22	0.314	0.09	0.49
2ND QUARTILE :	6.6	3.65	0.45	0.656	0.25	0.85
3RD QUARTILE :	14.9	6.68	1.00	1.084	0.48	1.42

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